Application Serial No. 09/656,626

- (Once Amended) The article of Claim 50 wherein the aluminum alloy has 51. an elongation of at least about 6%.
- 52. (Once Amended) The article of Claim 3/3 wherein the aluminum alloy is a 6061 aluminum alloy which has a tensile strength of at least about 45 KSI, a 0.2 % offset yield strength of at least about 40 KSI, and a Brinell Hardness at 500 kg load of at least about 80.
- 53. (Once Amended) A cast aluminum alloy article formed from a 6000 series aluminum alloy and having an elongation of at least about 4%, a 0.2 % offset yield strength of at least about 32 KSI, and a tensile strength of at least about 38 KSI, wherein the aluminum alloy has a substantially uniform and generally round grain structure; and is substantially free of micropores having a largest dimension which exceeds 0.0001 inch; and the generally round grain structure has an average grain size of about 0.003 to 0.004 inch.

Please add the following new claims:

54. (New) A high strength cast aluminum alloy product formed from a 6000 series aluminum alloy, wherein the aluminum alloy product has a generally round grain structure, substantially free of microshrinkage defects and is produced by a process comprising the steps of:

providing a molten body of the 6000 series aluminum alloy; centrifugally casting the molten body to form a cast body; and hot isostatically processing the cast body to form a hipped body; wherein the aluminum alloy product has an elongation of at least about 4%, a 0.2 % offset yield strength of at least about 32 KSI, and a tensile strength of at least about 38 KSI.

55. (New) The product of Claim 54 wherein the aluminum alloy has a Brinell Hardness at 500 kg load of at least about 80.

Application Serial No. 09/656,626

- 56. (New) The product of Claim 54 wherein the aluminum alloy is a 6061 aluminum alloy which has an elongation of at least about 6% and a tensile strength of at least about 42 KSI.
- 57. (New) The product of Claim 54 wherein the aluminum alloy has a substantially uniform and generally round grain structure; and is substantially free of micropores having a largest dimension which exceeds 0.0001 inch; and the generally round grain structure has an average grain size of about 0.003 to 0.004 inch.
- 58. (New) The product of Claim 54 wherein the aluminum alloy has a 0.2 % offset yield strength of at least about 40 KSI, and a tensile strength of at least about 45 KSI.
- 59. (New) A high strength cast aluminum alloy product formed from a 7000 series aluminum alloy, wherein the aluminum alloy product has a generally round grain structure, substantially free of microshrinkage defects and is produced by a process comprising the steps of:

providing a molten body of the 7000 series aluminum alloy; centrifugally casting the molten body to form a cast body; and hot isostatically processing the cast body to form a hipped body; wherein the aluminum alloy product has a 0.2 % offset yield strength of at least about 40 KSI, and a tensile strength of at least about 50 KSI.

- 60. (New) The product of Claim 59 wherein the aluminum alloy has an elongation of at least about 4%.
- 61. (New) The product of Claim 59 wherein the aluminum alloy has a tensile strength of at least about 75 KSI.
- 62. (New) The product of Claim 59 wherein the aluminum alloy has a 0.2 % offset yield strength of at least about 65 KSI.
- 63. (New) The product of Claim 59 wherein the aluminum alloy is a 7075 aluminum alloy.

001.1331788

-3- Attorney Docket No. 043420-0118